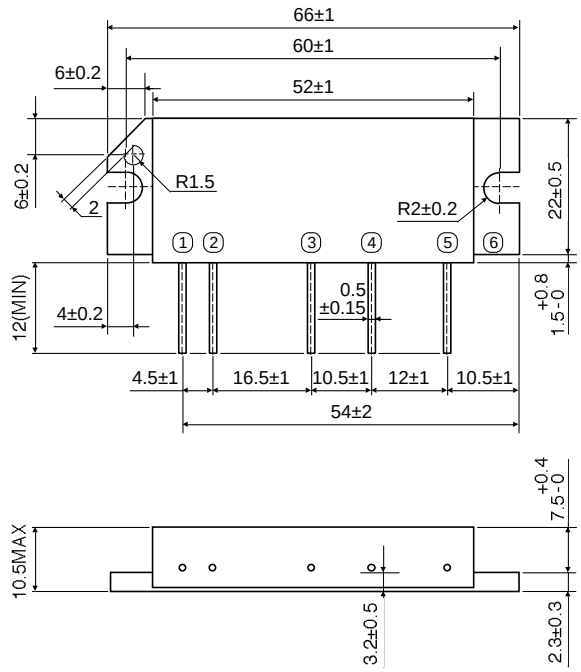
查询M67760HC供应商

M67760HC

896-941MHz, 12.5V, 20W, FM MOBILE RADIO

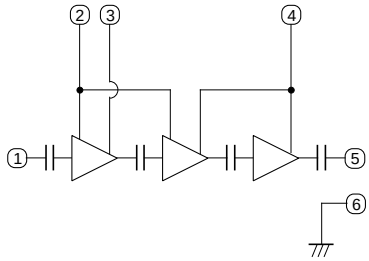
OUTLINE DRAWING

Dimensions in mm



H3

BLOCK DIAGRAM



PIN:
①Pin : RF INPUT
②VBB : BASE BIAS SUPPLY
③VCC1: 1st. DC SUPPLY
④VCC2: 2nd. DC SUPPLY
⑤PO : RF OUTPUT
⑥GND: FIN

ABSOLUTE MAXIMUM RATINGS (Tc=25°C unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
VBB	Base bias		9.5	V
VCC1	Supply voltage	VBB=9V	14	V
VCC2	Supply voltage	ZG=ZL=50Ω, VBB=9V	16.5	V
ICC	Total current	ZG=ZL=50Ω, VCC1≤12.5V	8.5	A
Pin (max)	Input power	f=896-941MHz, ZG=ZL=50Ω	0.8	W
PO (max)	Output power	ZG=ZL=50Ω	25	W
TC (OP)	Operation case temperature	ZG=ZL=50Ω	-30 to +110	°C
Tstg	Strage temperature		-40 to +110	°C

Note. Above parameters are guaranteed independently.

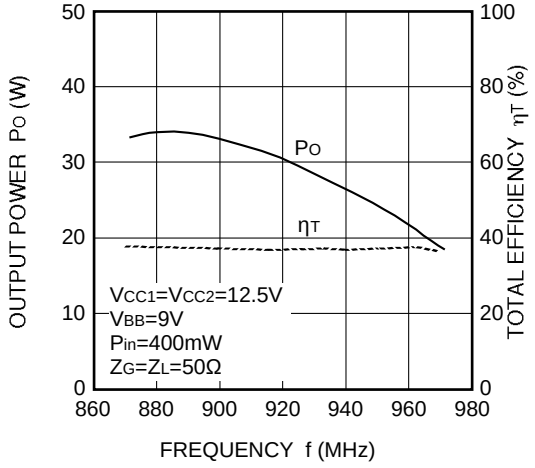
ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range		896	941	MHz
PO	Output power	VBB=9V, VCC1=VCC2=12.5V, Pin=0.4W, ZG=ZL=50Ω	20		W
ηT	Total efficiency	VBB=9V, VCC1=VCC2=12.5V, ZG=ZL=50Ω PO=20W (Pin:controlled)	25		%
2fO	2nd. harmonic			-30	dBc
ρin	Input VSWR			3	-
-	Load VSWR tolerance	VBB=9V, VCC1=12.5V, VCC2=15.5V, PO=20W (Pin:controlled), ZG=50Ω, Load VSWR=20:1	No degradation or destroy		-
-	Stability	VBB=9V, f=896-902, 935-941MHz, VCC1=10 to 12.5V, VCC2=10 to 15.5V (VCC1≤VCC2), PO=0 to 20W (Pin:controlled less than 0.4W), ZG=50Ω, Load VSWR≤3:1 (All phase)	No oscillation more than -60dBc		-

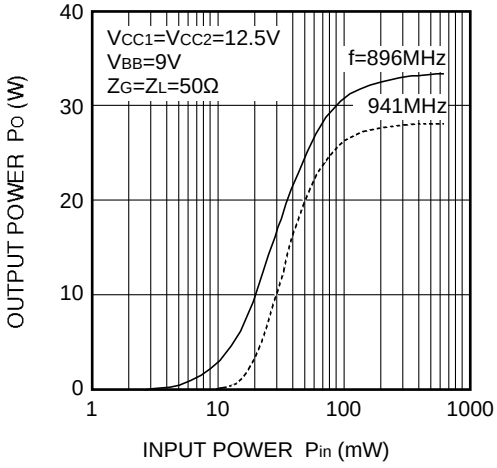
Note. Above parameters, ratings, limits and test conditions are subject to change.

TYPICAL PERFORMANCE DATA

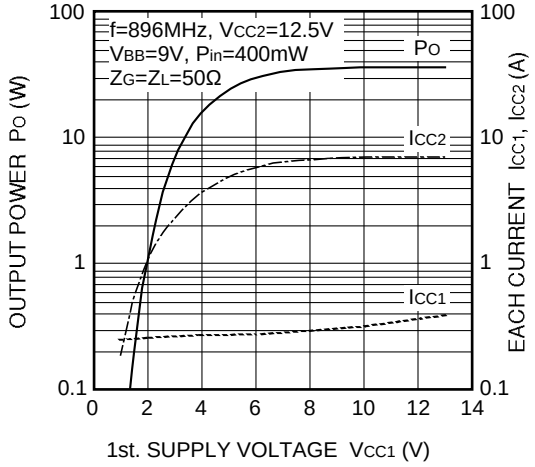
OUTPUT POWER, TOTAL EFFICIENCY VS. FREQUENCY



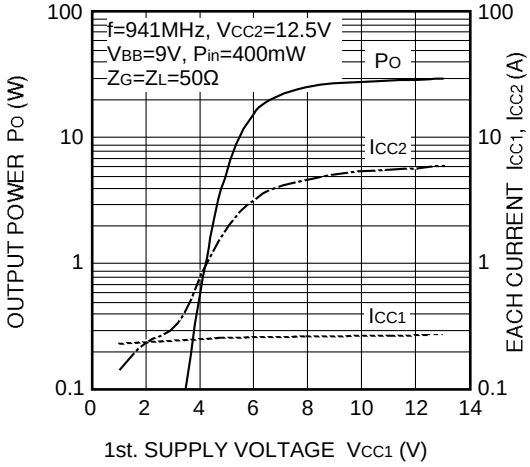
OUTPUT POWER, VS. INPUT POWER



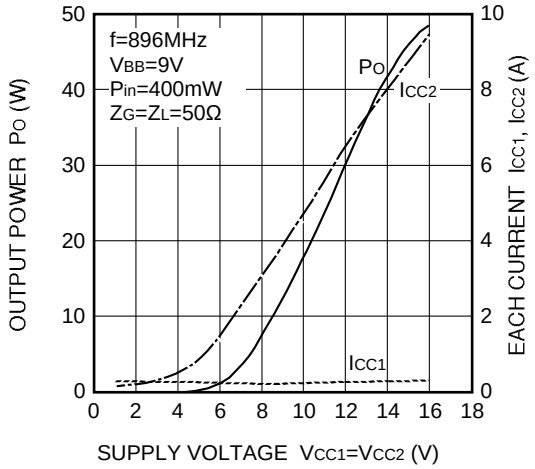
OUTPUT POWER, EACH CURRENT VS. 1st. SUPPLY VOLTAGE



OUTPUT POWER, EACH CURRENT VS. 1st. SUPPLY VOLTAGE



OUTPUT POWER, EACH CURRENT VS. SUPPLY VOLTAGE



OUTPUT POWER, EACH CURRENT VS. SUPPLY VOLTAGE